

AMENDMENTS TO THE CLAIMS:

Please replace the claims with the claims provided in the listing below wherein status, amendments, additions and cancellations are indicated.

1-8. (Canceled)

9. (Currently Amended) An axial-air-gap brushless vibration motor in which, comprising:

a stator having air-core armature coils and a shaft disposed thereon defining an axis of the motor;

an eccentric rotor having a magnet attached thereto ~~[[is]]~~ and rotatably supported by ~~[[a]]~~ the shaft on ~~[[a]]~~ the stator ~~having air-core armature coils disposed in the same plane, wherein ; and~~

~~[[in]]~~ said eccentric rotor ~~[[,]]~~ including:

a ~~[[the]]~~ rotor yoke formed of a thin magnetic metal sheet having a first side and a second side comprises and comprising a flat annular portion, a hanging a first axially extending portion on ~~[[the]]~~ an outer periphery diameter side of the flat annular portion, ~~[[and]]~~ a flange on ~~[[the]]~~ an inner diameter side of the flat annular

portion, and a second axially extending portion connected at a first axial end thereof to an inner periphery of said flat annular portion and at a second axial end thereof to said flange to form a stepped flange structure;

a disk ring-shaped axial-air-gap magnet having a plurality of magnetized magnetic poles ~~[[is]]~~ attached to the rotor yoke on the first side on so as to surround said flat annular portion and an inner periphery of said hanging first axially extending portion on the outer diameter side;

an arched eccentric weight ~~is fixed on the~~ attached to an outer periphery of said hanging first axially extending portion on the outer diameter side;

a cylindrical bearing attached to said rotor yoke on the second side on said flange radially inward of said second axially extending portion; and

said eccentric rotor ~~[[is]]~~ being rotatably supported on the shaft of the stator via said cylindrical bearing attached to said flange portion.

10. (Canceled)

11. (Currently Amended) ~~The axial-air-gap vibration motor, as described in claim 9, wherein~~ An axial-air-gap brushless vibration motor in which an eccentric rotor having a magnet attached thereto is rotatably supported by a shaft on a stator having air-core armature coils disposed in the same plane, wherein:

in said eccentric rotor,

the rotor yoke formed of a thin magnetic metal sheet comprises a flat portion, a hanging portion on the outer diameter side, and a flange on the inner diameter side of the flat portion;

a disk ring-shaped axial-air-gap magnet having a plurality of magnetized magnetic poles is attached to the rotor yoke so as to surround said flat portion and said hanging portion on the outer diameter side;

an arched eccentric weight is fixed on the outer periphery of said hanging portion on the outer diameter side;

said eccentric rotor is rotatably supported on the stator via said flange portion;

a plurality of tongues are formed at said hanging portion on the outer diameter side so as to protrude further outwardly and radially;

recesses corresponding to those tongues are provided in said eccentric weight; and

said eccentric weight is fixed to said tongues and ~~hanging~~ axially

extending portion on the outer diameter side.

12. (Currently Amended) ~~The axial-air-gap vibration motor, as described in claim 9, wherein~~ An axial-air-gap brushless vibration motor in which an eccentric rotor having a magnet attached thereto is rotatably supported by a shaft on a stator having air-core armature coils disposed in the same plane, wherein:

in said eccentric rotor,

the rotor yoke formed of a thin magnetic metal sheet comprises a flat portion, a hanging portion on the outer diameter side, and a flange on the inner diameter side of the flat portion;

a disk ring-shaped axial-air-gap magnet having a plurality of magnetized magnetic poles is attached to the rotor yoke so as to surround said flat portion and said hanging portion on the outer diameter side;

an arched eccentric weight is fixed on the outer periphery of said hanging portion on the outer diameter side;

said eccentric rotor is rotatably supported on the stator via said flange portion;

projections protruding inwardly and radially are formed at both end portions of said eccentric weight; and

notches capable of accommodating those projections are formed in

said hanging portion on the outer diameter side.

13. (Canceled)

14. (Canceled)

15. (New) The axial-air-gap brushless vibration motor, as described in claim 9, further comprising:

radial tongues connected to said annular flat portion by said first axially extending portion and extending radially outward from an outer periphery of said first axially extending portion;

said eccentric weight defining recesses corresponding to the radial tongues; and

said eccentric weight having said radial tongues disposed in and attached the recesses and thereby being attached to the outer periphery of said first axially extending portion.

16. (New) The axial-air-gap brushless vibration motor, as described in claim 15, wherein said cylindrical bearing is a sintered oil-impregnated bearing and said eccentric rotor is supported to rotate about the shaft.

17. (New) The axial-air-gap brushless vibration motor, as described in claim 16, wherein said first and second axially extending portions extend from said flat annular portion in the same axial direction.

18. (New) The axial-air-gap brushless vibration motor, as described in claim 17, wherein said first and second axially extending portions extend from said flat annular portion parallel to the axis of the shaft.

19. (New) The axial-air-gap brushless vibration motor, as described in claim 15, wherein said first and second axially extending portions extend from said flat annular portion in the same axial direction.

20. (New) The axial-air-gap brushless vibration motor, as described in claim 19, wherein said first and second axially extending portions extend from said flat annular portion parallel to the axis of the shaft.

21. (New) The axial-air-gap brushless vibration motor, as described in claim 9, wherein said cylindrical bearing is a sintered oil-impregnated bearing and said eccentric rotor is supported to rotate about the shaft.

22. (New) The axial-air-gap brushless vibration motor, as described in claim 21, wherein said first and second axially extending portions extend from said flat annular portion in the same axial direction.

23. (New) The axial-air-gap brushless vibration motor, as described in claim 22, wherein said first and second axially extending portions extend from said flat annular portion parallel to the axis of the shaft.

24. (New) The axial-air-gap brushless vibration motor, as described in claim 9, wherein said first and second axially extending portions extend from said flat annular portion in the same axial direction.

25. (New) The axial-air-gap brushless vibration motor, as described in claim 24, wherein said first and second axially extending portions extend from said flat annular portion parallel to the axis of the shaft.

26. (New) The axial-air-gap brushless vibration motor, as described in claim 9, wherein said first and second axially extending portions extend from said flat annular portion parallel to the axis of the shaft.